



MARINE CAMERAS WITH  
ACTIVE GYRO STABILIZATION

# FLIR M300<sup>®</sup> Series

The M300 Series sets a new standard for safe marine navigation and situational awareness. Applying enhanced stabilization technology to high-performance visible, thermal, or multispectral imaging, M300 Series marine cameras deliver unwavering vision in high-stakes environments.

With options for any marine application, the M300 Series offers outstanding vision in the most grueling conditions. Three unique sensor combinations on the M300 Series give captains total control over their vision. The **M300C** captures high definition visible imaging and uses a 30x optical zoom to monitor distant targets. **M332** and **M364** dedicated thermal cameras capture excellent vision in complete darkness, blinding glare, and light fog. The **M364C** and **M364C-LR** combine visible and thermal sensors, leveraging FLIR Color Thermal Vision™ (CTV) and MSX™ for an elite level of awareness on the water.

## THERMAL AND VISIBLE OPTIONS

The M300 Series offers single-sensor visible and thermal models, as well as dual-sensor, multispectral systems.

## RUGGED DESIGN

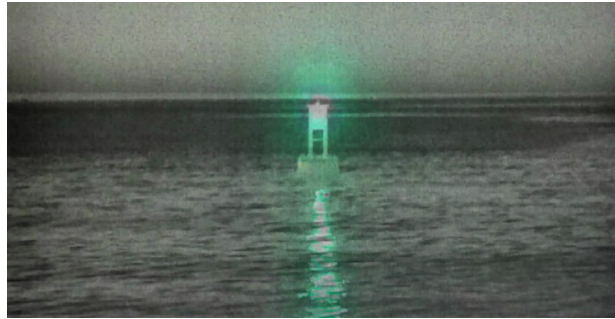
Designed to withstand punishing weather and high seas with robust shock protection and an IP56-rated housing.

## TOTAL CONTROL

Active gyro-stabilization and continuous 360° panning offer complete awareness in any direction.

## SEAMLESS INTEGRATION

Exceptional connectivity with navigation displays from leading marine electronic brands and security systems.



# SAFER NAVIGATION

The M300 Series makes nighttime navigation even safer and less stressful. FLIR thermal technology gives captains the power to see clearly in total darkness, glaring light, and light fog.

# FLIR COLOR THERMAL VISION<sup>®</sup>

Exclusive FLIR Color Thermal Vision blends visible camera details with a thermal image, overlaying vital color imagery that allows captains to positively identify navigation aids and other vessels within the thermal scene.



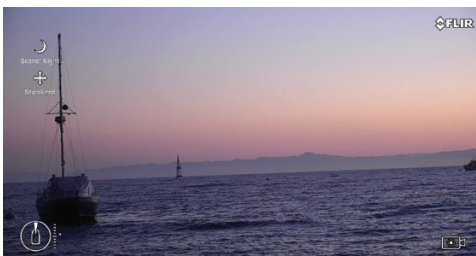
	M300C	M332	M364	M364C	M364C LR
Thermal Sensor	N/A	Boson 320	Boson 640	Boson 640	Boson 640
Visible Camera	Low Light HD Visible 30x Zoom	N/A	N/A	Low Light HD Visible 30x Zoom	Low Light HD Visible 30x Zoom



**Marine high definition camera with active gyro-stabilization**

## FLIR M300C™

Combining a high-performance visible marine camera with long-range optical zoom capability, the M300C offers positive target identification for law enforcement, commercial, and recreational applications. Advanced gyro-stabilization provides steady imaging in rough sea conditions and allows the M300C to monitor targets or hazards over long distances continuously. Exceptional low light performance from the M300C gives captains enhanced awareness once the sun dips below the horizon.



### HIGH DEFINITION NAVIGATION

Low light HD visible imaging sensor and long-range zoom offer enhanced target identification.

- Better than binoculars, the M300C with 30x optical zoom and image stabilization delivers superior long-range imaging and positive target identification
- Ultra-low light camera technology provides visible imagery in the most challenging lighting conditions
- Overlay AIS targets, chart objects, and waypoints in real time when combined with Raymarine Axiom and award-winning ClearCruise™ augmented reality technology



### A STEADY VIEW IN ROUGH SEAS

Stable viewing in heavy seas keeps eyes on-target.

- Two-axis mechanical stabilization virtually eliminates the effects of pitch, heave, and yaw
- Electronic stabilization minimizes low frequency rumble and vibration
- Integrated AHRS (Attitude Heading Reference Sensor)
- Horizontal stabilization automatically keeps the camera on scene as you maneuver.



### SEAMLESS INTEGRATION

Exceptional connectivity with navigation and security systems.

- Optional joystick control unit and integration with multifunction navigation displays
- ONVIF-compliant for PTZ security camera functionality
- H.264 IP video stream and HD-SDI lossless digital video interface
- Composite analog video (SD) for integration into legacy displays



## SPECIFICATIONS

### Main Visible Camera

Detector Type	1/2.8" Exmor R CMOS
Lines of Resolution	High Definition up to 1080/30p
Minimum Illumination	0.1 lux (50 IRE, 1/30s, ICR off, slow shutter off, high sensitivity off) / 0.0008 lux (30 IRE, ICR on, slow shutter 1/4s, high sensitivity on)
Zoom	30× Optical Zoom
E-Zoom	12x
Focal Length	129 mm to 4.3 mm
Field of View	Optical 63.7° x 35.8° WFOV to 2.3° x 1.29° NFOV

### System Specifications

Gyro Stabilized	Yes
ClearCruise AR	Yes, with Raymarine Axiom
Pan/Tilt Adjustment Range	360° Continuous Pan, +/- 90° Tilt
Analog Video Output	NTSC
Analog Video Connector Types	BNC
Network Video Output	Single H.264 IP Network Video Stream
HD-SDI Lossless Video Output	Yes
Power Requirements	12 to 24 VDC
Power Consumption	41 W typical, 56 W typical (with heaters on.) Note: FLIR recommends using a 75 W power supply

### Environmental

Operating Temperature Range	-13°F to +131°F (-25°C to +55°C)
Storage Temperature Range	-30°F to +158°F (-30°C to +70°C)
Automatic Window Defrost	Standard at Power-Up
Sand/Dust Ingress	Mil-Std-810E or IP6X
Water Ingress	IPX6 (heavy seas, power jets of water)
Shock	15g vertical, 9g horizontal
Vibration	IEC60945
Lightning Protection	Standard
Salt Mist	IEC60945
Wind	100 knots (115.2 MPH)
EMI	IEC60945

### Physical

Weight	6.3 kg (13.9 lb) without mounting riser; 6.75 kg (14.9 lb) with mounting riser.
Size	Camera: Base diameter: 222.2 mm (8.7 in.) Height: 328.3 mm (12.9 in.) Camera attached to mounting riser: Base diameter (with seal): 254.0 mm (10.0 in.) Height: 365.5 mm (14.4 in.)

